TABLE 36

Domestic R&D paid for by others and performed by the company, by type of R&D, industry, and company size: 2018 (Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Basic resear		Applied research	Developme
All industries	21-23, 31-33, 42-81	63,230	6,668		11,993	44,570
Manufacturing industries	31-33	39,393	4,353	i	5,901	29,139
Food	311	242	26		83	134
Beverage and tobacco products	312	109	13		22	73
Textile, apparel, and leather products	313-16	4	0		*	4
Wood products	321	4	*	i	1	3
Printing and related support activities	323	4	*		*	3
Chemicals	325	10,553	2,208		1,256	7,089
Pharmaceuticals and medicines	3254	9,792	2,081		899	6,813
Other chemicals	other 325	761	128		358	276
Plastics and rubber products	326	83	1		5	78
Nonmetallic mineral products	327	24	2		2	21
Primary metals	331	22	i 1	i	3 i	19
Fabricated metal products	332	105	6	i	20 i	79
Machinery	333	1,034	52		103	879
Computer and electronic products	334	9,775	283		992	8,499
Semiconductor and other electronic components	3344	2,410	82		100	2,228
Navigational, measuring, electromedical, and control instruments	3345	5,863	115	i	782	4,966
Other computer and electronic products	other 334	1,502	i 86	i	110	1,305
Electrical equipment, appliances, and components	335	266	32		44	189
Transportation equipment	336	16,735	1,683	i	3,327	11,725
Aerospace products and parts	3364	13,131	i 1,575	i		
Other transportation	other 336	3,604	107		1,274	2,223
Furniture and related products	337	5	*		1	5
Miscellaneous manufacturing	322, 324, 339	428	46		43	339
Nonmanufacturing industries	21-23, 42-81	23,838	2,315		6,092	15,431
Information	51	862	182		137	543
Publishing	511	489	38		59	393
Telecommunications	517	65	20		0	45
Data processing, hosting, and related services	518	191	9 - 89		0 - 79	102
Other information	other 51	117	36 - 116		0 - 79	2
Professional, scientific, and technical services	54	22,486	2,076		5,890	14,520
Architectural, engineering, and related services	5413	1,684	98	i	-	887
Computer systems design and related services	5415	2,291	386	Ť	815	1,090
Scientific research and development services	5417	17,761	1,526		4,229	12,006
Research and development in biotechnology	541711	5,037	682		159	4,197
Research and development in the physical, engineering, and life sciences (except biotechnology)	541712		442		3,899	7,739
Research and development in the social sciences and humanities	541720	644	402		171 i	71
Other professional, scientific, and technical services	other 54	750	66		148	537
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	490	57		64	368
All companies (number of domestic employees)	-	63,230	6,668		11,993	44,570
Small companies						
10-19 ^a	-	1,050	64	i	298	688
20-49	_	1,695	142		381	1,172
Medium companies		,				.,=
50-99	_	1,875	350		300	1,226
100-249	_	3,921	422		1,160 i	-
Large companies		0,741	722		1,100 1	2,040

TABLE 36

Domestic R&D paid for by others and performed by the company, by type of R&D, industry, and company size: 2018 (Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Basic researc		
250-499	_	3,041	248	415	2,377
500-999	_	2,096	180	441	1,475
1,000-4,999	_	10,068	2,319	2,391	5,359
5,000-9,999	_	9,063	59	1,672	7,331
10,000-24,999	_	9,997	457	i 1,481	8,060 i
25,000 or more	_	20,423	2,426	i 3,455	14,542

^{* =} amount < \$500,000; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s):

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2018.

^a Business Research and Development Survey does not include companies with fewer than 10 domestic employees.